



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD Power Inductor

0624CDMCC/DS



Description

- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L×W×H: 7.3×6.8×2.4mm Max.
- Product weight:0.6g (Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating temperature range: -55°C~+125°C(including coil's self temperature rise)
- Storage temperature range: -55°C~+125°C

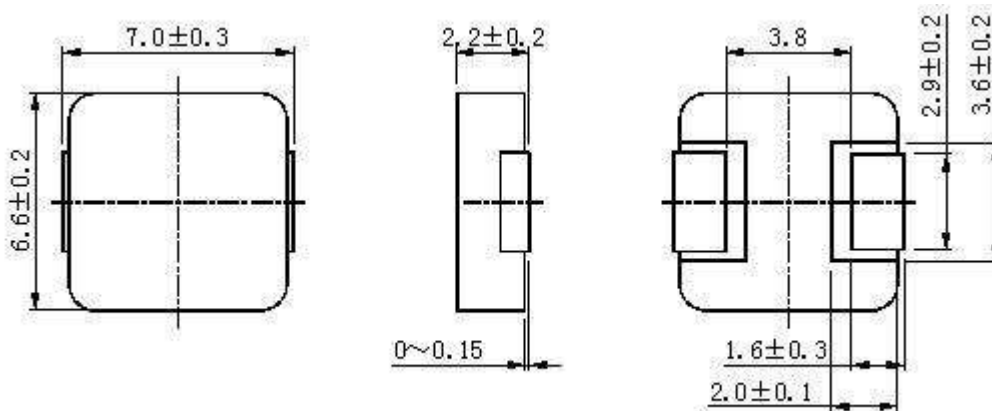
Packaging

- Carrier tape and reel packaging.
- 1500pcs/Reel.

Applications

- Qualified consumer-level applications (Ideally used in tablet PC, LCD display , Server application). High current, POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.

Dimension - [mm]



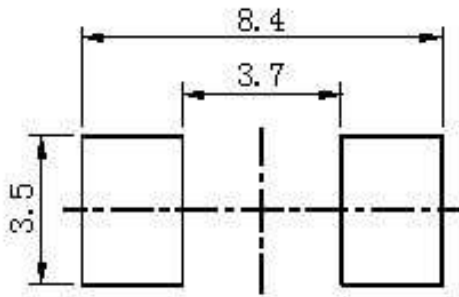
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

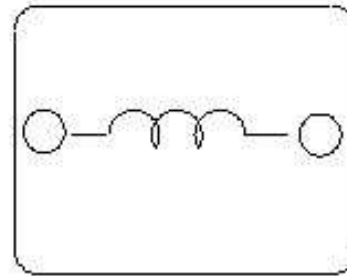
0624CDMCC/DS



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

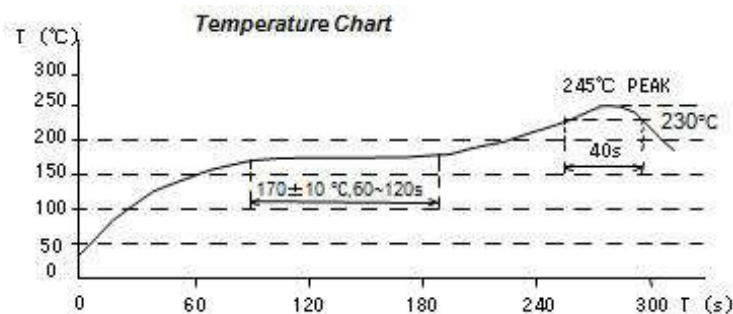
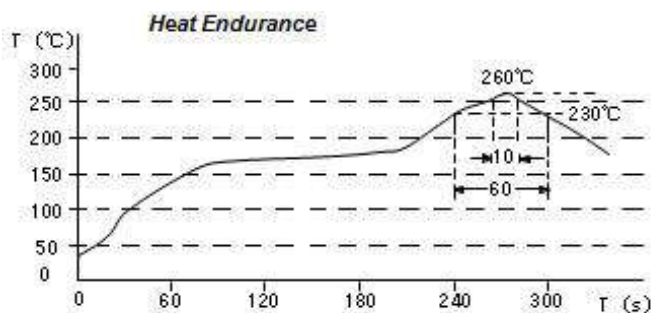
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C max(typ) (m Ω)	Saturation Current at 20°C(A) ※2	Temperature Rise Current (A) ※3
0624CDMCCDS-R08MC	0.08 \pm 20%	0.85 (0.70)	85.00	42.00
0624CDMCCDS-R10MC	0.10 \pm 20%	0.96 (0.80)	47.00	40.00
0624CDMCCDS-R12MC	0.12 \pm 20%	0.96 (0.80)	39.00	40.00
0624CDMCCDS-R15MC	0.15 \pm 20%	1.08 (0.90)	37.00	38.00
0624CDMCCDS-R22MC	0.22 \pm 20%	3.00 (2.50)	36.10	22.00
0624CDMCCDS-R33MC	0.33 \pm 20%	4.10 (3.50)	28.50	20.50
0624CDMCCDS-R47MC	0.47 \pm 20%	5.10 (4.50)	24.50	17.50
0624CDMCCDS-R56MC	0.56 \pm 20%	6.50 (5.50)	20.00	15.40
0624CDMCCDS-R68MC	0.68 \pm 20%	7.00 (6.20)	18.80	15.00
0624CDMCCDS-1R0MC	1.00 \pm 20%	9.60 (8.00)	16.20	12.60
0624CDMCCDS-1R5MC	1.50 \pm 20%	19.20 (16.00)	15.00	8.70
0624CDMCCDS-2R2MC	2.20 \pm 20%	28.00 (23.00)	12.80	7.00
0624CDMCCDS-3R3MC	3.30 \pm 20%	48.00 (40.00)	10.60	5.50
0624CDMCCDS-4R7MC	4.70 \pm 20%	54.00 (45.00)	7.60	4.80
0624CDMCCDS-6R8MC	6.80 \pm 20%	66.00 (55.00)	6.70	4.20
0624CDMCCDS-100MC	10.00 \pm 20%	101 (92.00)	5.50	3.10
0624CDMCCDS-150MC	15.00 \pm 20%	160 (145)	3.70	2.50
0624CDMCCDS-220MC	22.00 \pm 20%	242 (222)	3.20	1.90

※1 Measuring frequency Inductance at 100kHz , 1.0V

※2 Saturation current: The actual value of DC current when the inductance is over 70% of its initial value. (at 25°C)

※3 Temperature rise current: The actual value of DC current when temperature of coil rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$) Board conditions: FR4, Copper=70 μ m, four-layer PWB, t=1.6mm.

Solder Reflow Condition



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SMD Power Inductor

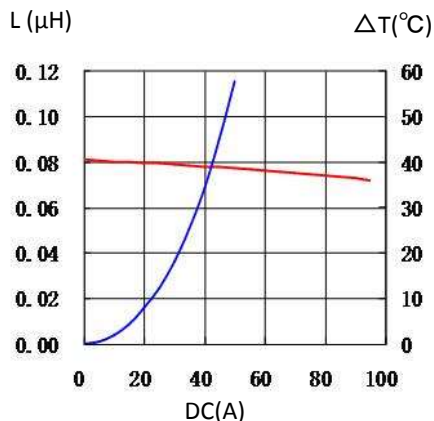
0624CDMCC/DS



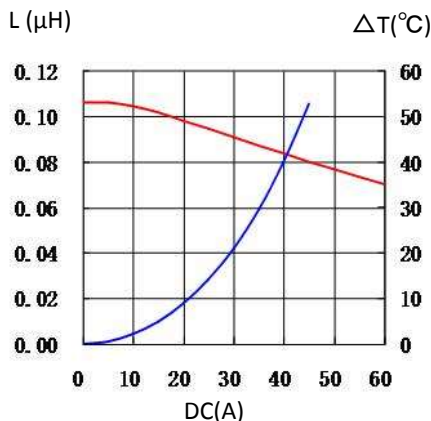
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

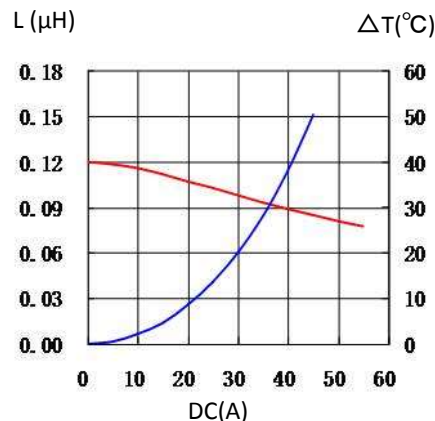
1. 0624CDMCCDS-R08MC



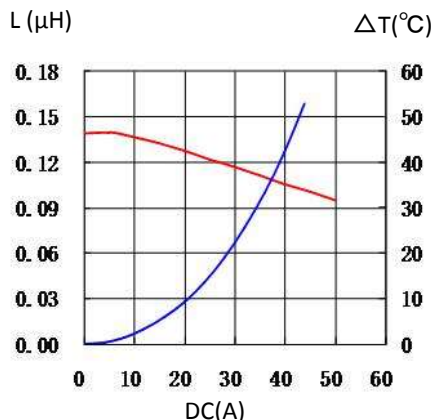
2. 0624CDMCCDS-R10MC



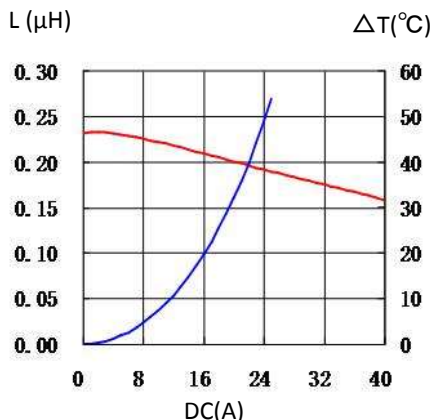
3. 0624CDMCCDS-R12MC



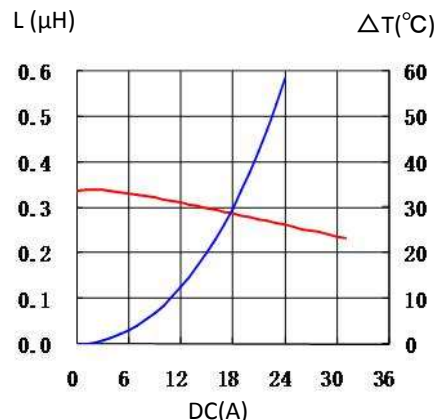
4. 0624CDMCCDS-R15MC



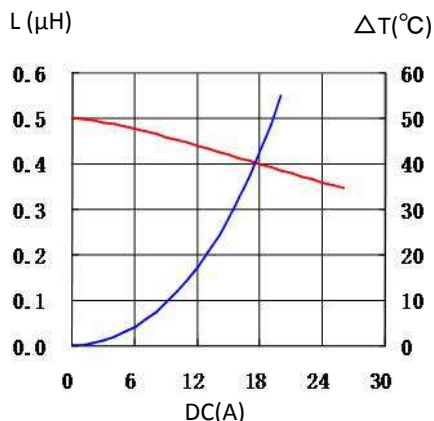
5. 0624CDMCCDS-R22MC



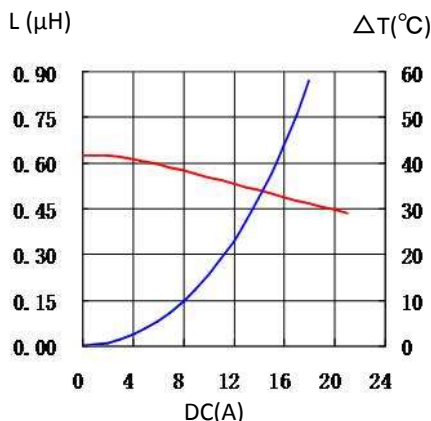
6. 0624CDMCCDS-R33MC



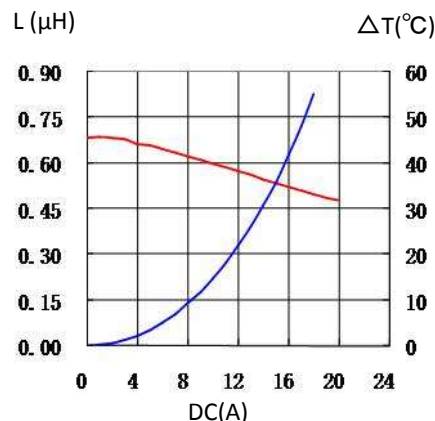
7. 0624CDMCCDS-R47MC



8. 0624CDMCCDS-R56MC



9. 0624CDMCCDS-R68MC



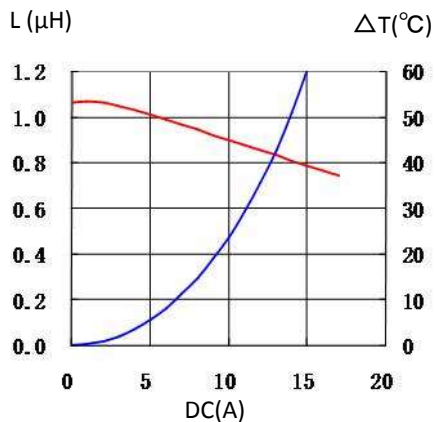
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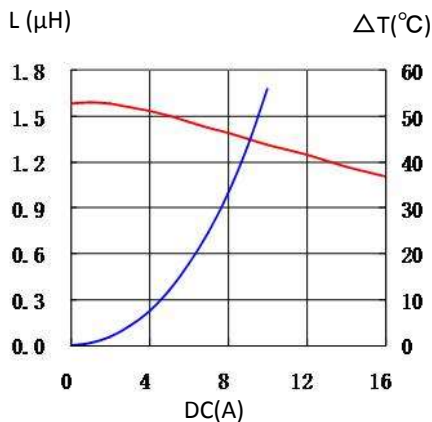
0624CDMCC/DS



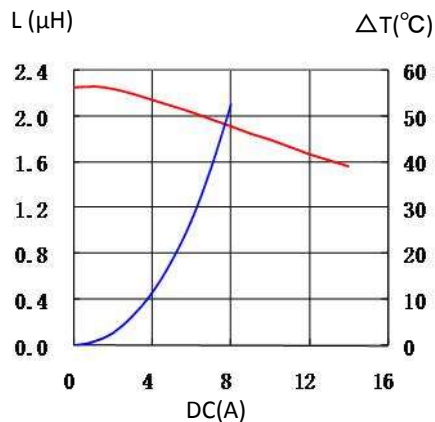
10. 0624CDMCCDS-1R0MC



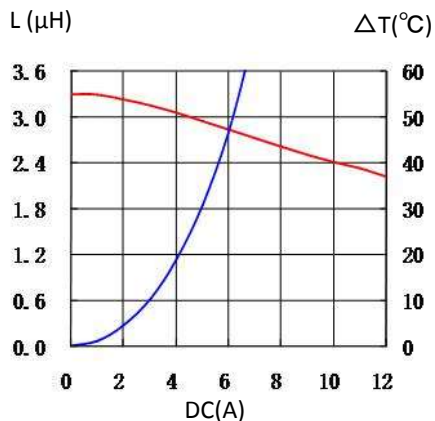
11. 0624CDMCCDS-1R5MC



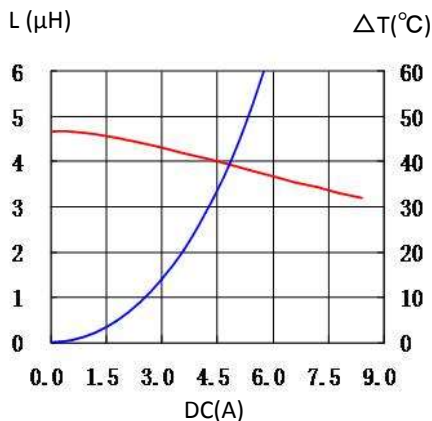
12. 0624CDMCCDS-2R2MC



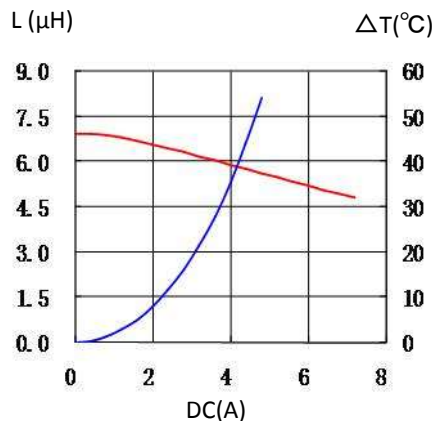
13. 0624CDMCCDS-3R3MC



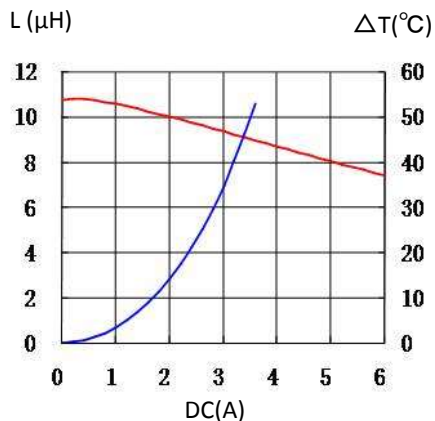
14. 0624CDMCCDS-4R7MC



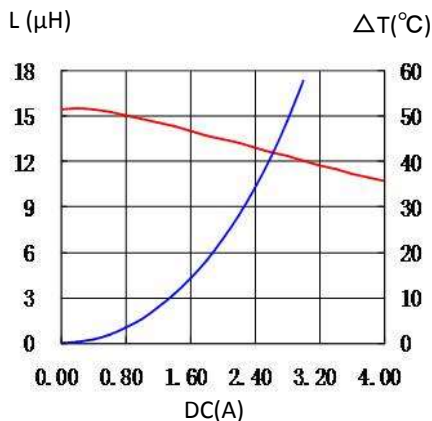
15. 0624CDMCCDS-6R8MC



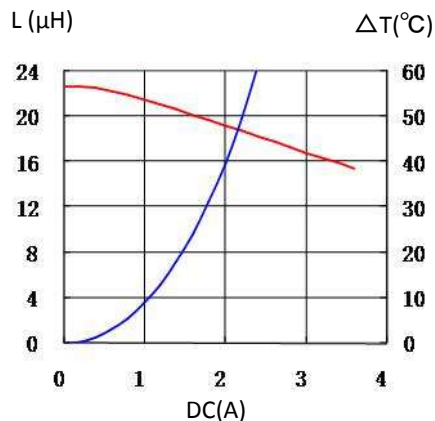
16. 0624CDMCCDS-100MC



17. 0624CDMCCDS-150MC



18. 0624CDMCCDS-220MC



For sales office information, please [click here](#) to visit our website.